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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/717,540	11/21/2003	Shinichi Murakawa	245903US-2 CONT	7978
22850 7	7590 12/15/2005		· EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			LEWIS, DAVID LEE	
1940 DUKE STREET ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
	•		2673	
			DATE MAIL ED: 12/15/2004	•

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/717,540	MURAKAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	David L. Lewis	2673				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin 16(ii) apply and will expire SIX (6) MONTHS from 16 cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 25 Fe	ebruary 2005.					
	action is non-final.					
3) Since this application is in condition for allowar		secution as to the merits is				
closed in accordance with the practice under E						
Disposition of Claims						
4)⊠ Claim(s) <u>21-25</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>21-25</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine.	•					
10) The drawing(s) filed on is/are: a) acce		Examiner				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti						
11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3.☐ Copies of the certified copies of the prior	• •					
application from the International Bureau	•					
* See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	ed.				
	•					
Attachment(s)						
1) X Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da	ate, Patent Application (PTO-152)				
3) [2] Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/21/2003.	6) Other:	anon repriouson (1 10-102)				

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DETAILED ACTION

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(d) the invention was first patented or caused to be patented, or was the subject of an inventor's certificate, by the applicant or his legal representatives or assigns in a foreign country prior to the date of the application for patent in this country on an application for patent or inventor's certificate filed more than twelve months before the filing of the application in the United States.

1. Claims 21-25 are rejected under 35 U.S.C. 102(d) as being barred by applicant's Japan Patent filing, JP 2000-055964, Murakawa et al., published on 2/25/2000, and filled on 8/10/1998. Applicant has 1 year from the time of filing the foreign application (8/10/1998), to file the same invention in the United States or the patent is barred under 102(d).

As in Claim 21, Murakawa et al. teaches of an apparatus for testing a pixel electrode structure in which a plurality of pixel electrodes are arranged in a matrix of n rows and m columns, each of n and m being a natural number more than 1, and each of said plurality of pixel electrodes being activated, figures 1-7

comprising: a testing unit which has at least one potential sensor using an FET function in which a specific one of said plurality of pixel electrodes is used as a gate of an FET, figure 1 item 101;

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wherein said at least one potential sensor is arranged opposite to said specific pixel

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electrode while keeping a predetermined distance from said specific pixel electrode,

figure 1 item d

said potential sensor including two semiconductor regions of a first conductive type

provided separately in a semiconductor region of a second conductive type, said FET

function is realized by said potential sensor and said specific pixel electrode, figure 5

item 207

said potential sensor is activated in response to a sensor activation signal to output a

voltage detection result associated with an activated pixel electrode, figure 1 item 115;

a drive section which relatively drives said testing unit to said specific pixel electrode

with respect to said pixel electrode structure while keeping said predetermined distance,

in response to a testing unit drive signal, figure 1 item 105;

and a control unit which outputs said testing unit drive signal to said drive section,

sequentially activates said specific pixel electrode and pixel electrodes adjacent to said

specific pixel electrode when said testing unit is driven to said specific pixel electrode.

outputs said sensor activation signal to said testing unit, figure 1 item 107,

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and detects a disconnection of said specific pixel electrode and a short-circuit between said specific pixel electrode and each of said adjacent pixel electrodes based on said voltage detection result, figure 1 item 107, figure 4 items a and b.

As in Claim 22, Murakawa et al. teaches of wherein said testing unit comprises: a plurality of said potential sensors arranged in one line, said control unit outputs said sensor activation signal to said testing unit for each of said plurality of potential sensors, figure 2a item 207 (1N), sequentially activates ones of said plurality of pixel electrodes corresponding to said plurality of potential sensors when each of said plurality of potential sensors is activated, and detects the disconnections of said pixel electrodes corresponding to said plurality of potential sensors based on said voltage detection results from said testing unit, figure 6 item 207.

As in Claim 23, Murakawa et al. teaches of wherein when each of said plurality of potential sensors is activated, said control unit sequentially activates each of said adjacent pixel electrodes to said specific pixel electrode corresponding to the activated potential sensor, figure 2a item 101/207 - c, and detects the short-circuit between said specific pixel electrode and the activated adjacent pixel electrode based on said voltage detection result from said testing unit, figure 1 item 107.

As in Claim 24, Murakawa et al. teaches of wherein said testing unit comprises: said plurality of potential sensors, figure 2a item 207, a plurality of amplifiers respectively

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connected with said plurality of potential sensors, figure 2a item 209 (3N); and a

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scanner which sequentially selects outputs of said plurality of amplifiers for output to

said control unit as said voltage detection result, figure 2a item 211.

As in Claim 25, Murakawa et al. teaches of wherein said testing unit comprises: said

plurality of potential sensors, figure 2a item 207; a plurality of amplifiers respectively

connected with said plurality of potential sensors, figure 2a item 209; and a scanner

which sequentially selects outputs of said plurality of amplifiers for output to said control

unit as said voltage detection result, figure 2a item 211.

Conclusion

2. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **David L. Lewis** whose telephone number is **(571) 272-**

7673. The examiner can normally be reached on MT and THF from 8 to 5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala, can be reached on **(571) 272-7681**. Any inquiry of a general nature or

relating to the status of this application or proceeding should be directed to the Group

receptionist whose telephone number is (571)-273-8300.

4. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Examiner: David L. Lewis

December 11, 2005

BIPIN SHALWALA

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2600